



- ### Features
- SLC-NAND flash technology
 - Support SD mode and SPI mode
 - Support CPRM
 - Write Protect switch
 - Capacities from 128MB up to 32GB

- ### Specification
- **Compatibility**
 - **SDC** SDA Specifications V1.01 / V1.1/ V2.0 / V3.0
 - **SDHC** 128MB to 2GB: FAT file system
 - **SDHC** 4GB to 32GB: FAT16 file system
 - **Declaration** RoHS & REACH compliant
 - **Flash technology** SLC-NAND flash technology
 - **Form-factor** Standard SD card form-factor
 - **Host interface** 9-pin connector
 - **Write Protection** Mechanical switch
 - **Performance**
 - **Data transfer rate** Class-10
 - **Sequential read** SDC: 23 MB/sec (Max.)
 - **Sequential read** SDHC: 23 MB/sec (Max.)
 - **Sequential write** SDC: 18 MB/sec (Max.)
 - **Sequential write** SDHC: 21 MB/sec (Max.)
 - **Environmental**
 - **Operating temp.** IND. -40°C~+85°C
 - **Non-operating temp.** IND. -50°C~+95°C
 - **Humidity** 10% ~ 95% non-condensing

- **Vibration** 70 Hz to 2K Hz, 20G, 3 axes
- **Shock** 0.5ms, 1,500 G, 3 axes
- **Altitude** 70,000 feet
- **Power consumption**
 - **Power requirement** +3.3V ± 5%
 - **Reading mode** 43 mA (Max.)
 - **Writing mode** 69 mA (Max.)
 - **Idle (Standby) mode** 1.1 mA (Max.)
- **Reliability**
 - **Wear-leveling** Global wear-leveling algorithms
 - **MTBF** > 3,000,000 hours
 - **Erase counts** Up to 60,000 times
 - **ECC** 96 bits per 1024 bytes
- **Physical specification**
 - **Weight (Max.)** 2.5g
 - **Dimension (WxLxH)** 24.0 x 32.0 x 2.1 (mm)
- **Warranty** 5 years or within 60,000 erasing counts
- **SLC IND. grade**

Part Number List

SD memory card			SDHC memory card		
Capacity	-40°C~+85°C		Capacity	-40°C~+85°C	
128MB	WPSDC128M-HDITI		4GB	WPSDH004G-HDITI	
256MB	WPSDC256M-HDITI		8GB	WPSDH008G-HDITI	
512MB	WPSDC512M-HDITI		16GB	WPSDH016G-HDITI	
1GB	WPSDC001G-HDITI		32GB	WPSDH032G-HDITI	
2GB	WPSDC002G-HDITI				

Part Number Decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
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Example
W P S D H 0 3 2 G - H D I T I - - - - -

- X1 Grade**
W : Industrial grade operating temp. -40°C~+85°C
- X2 The material of casing**
P : Plastic casing
- X3 X4 X5 Product category**
SDC : SD memory card
SDH : SDHC memory card
- X6 X7 X8 X9 Capacity**
128M : 128MB 004G : 4GB
256M : 256MB 008G : 8GB
512M : 512MB 016G : 16GB
001G : 1GB 032G : 32GB
002G : 2GB

- X11 Controller**
H : HERMIT Series
- X12 Controller version**
A, B, C, D,....
- X13 Controller grade**
I : Industrial grade
- X14 Flash IC brand**
T : Toshiba SLC-NAND flash IC
- X15 Flash IC grade**
I : Industrial grade
- X17 X18 X19 X20 Reserved for specific requirements**

SLC
oSLC
MLC
3D-NAND
DRAM Module
Adappter
Card-drive